

WHAT IS CLAIMED IS:

1. A color image forming apparatus comprising:

a first image processing unit and a second image processing unit, each having,

a photosensitive body,

exposing means for forming an electrostatic latent image by exposing a surface of said photosensitive body, and

a plurality of developing devices for supplying said electrostatic latent image with toner,

each of said plurality of developing devices withholding toner of a different color provided that one of said plurality of developing device in said first image processing unit withholds black toner,

a color image being formed by transferring toner images formed on said photosensitive bodies in said first and second image processing units so as to be superimposed over one another;

additional information composite means for producing a composite image by combining a chief monochrome image with additional information, said additional information forming an image different from said chief monochrome

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image; and

control means for having said first image processing unit form said chief monochrome image and said second image processing unit form the image of said additional information.

2. The color image forming apparatus of Claim 1, wherein:

said additional information is identification information which identifies a particular device; and

said additional information composite means produces the composite image by combining said identification information with said chief monochrome image.

3. The color image forming apparatus of Claim 1, wherein said control means has said plurality of developing devices in said second image processing unit operate simultaneously for an electrostatic latent image of said additional information to form the image of said additional information.

4. The color image forming apparatus of Claim 1, wherein, of all said plurality of developing devices in said second image processing unit, a developing device withholding a lighter color is positioned in an upstream



said plurality of developing devices in said first image processing unit withholds black toner,

a color image being formed by transferring toner images formed on said photosensitive bodies in said first and second image processing units so as to be superimposed over one another;

an additional information composite section for producing a composite image by combining a chief monochrome image with additional information, said additional information forming an image different from said chief monochrome image; and

a central processing unit for having said first image processing unit form said chief monochrome image and said second image processing unit form the image of said additional information.

8. The color image forming apparatus of Claim 1, wherein said additional image composite means includes an additional information memory for storing said additional information.

9. The color image forming apparatus of Claim 1, further comprising an intermediate transfer belt,

provided in a position to oppose said photosensitive body in each of said first and second image processing units, so that a color image is formed as toner images formed on said photosensitive bodies are transferred thereon so as to be superimposed over one another.

10. The color image forming apparatus of Claim 1, wherein each of said plurality of developing devices is a non-contacting type which develops the electrostatic latent image formed on the surface of said photosensitive body without physically contacting said photosensitive body.

11. The color image forming apparatus of Claim 1, wherein:

one of said plurality of developing devices in said second image processing unit withholds yellow toner; and

said additional information is identification information for identifying a particular device and the image thereof is formed with said yellow toner by said second image processing unit.

12. The color image forming apparatus of Claim 11, wherein each of said developing devices withholding the yellow toner and black toner has a larger toner capacity

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than a rest of said plurality of developing devices.

13. The color image forming apparatus of Claim 1, wherein the image of said additional information is formed by adding toner of different colors withheld in said plurality of developing devices in said second image processing unit.

14. The color image forming apparatus of Claim 1, wherein an image of said additional information is formed by toner of a color selected from the group consisting of yellow, magenta, and cyan.

15. A color image forming apparatus comprising:

first and second image processing units for forming toner images of different colors, respectively;

a layering section for layering said toner images formed by said first and second image processing units;

image data lines respectively serving as first and second systems, said first and second systems selectively sending image data of respective corresponding colors based of an original image to said first and second image processing units; and

an additional information memory, connected to said image data line serving as said second system, for

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16. The color image forming apparatus of Claim 15, wherein said first image processing unit forms a black toner image.

17. The color image forming apparatus of Claim 15, wherein said second image processing unit forms a yellow toner image.

18. The color image forming apparatus of Claim 15, wherein said additional information memory stores image data of identification information for identifying a particular device which has formed said original image.

19. The color image forming apparatus of Claim 15, wherein said additional information memory stores image data of a particular pattern as a predetermined image.